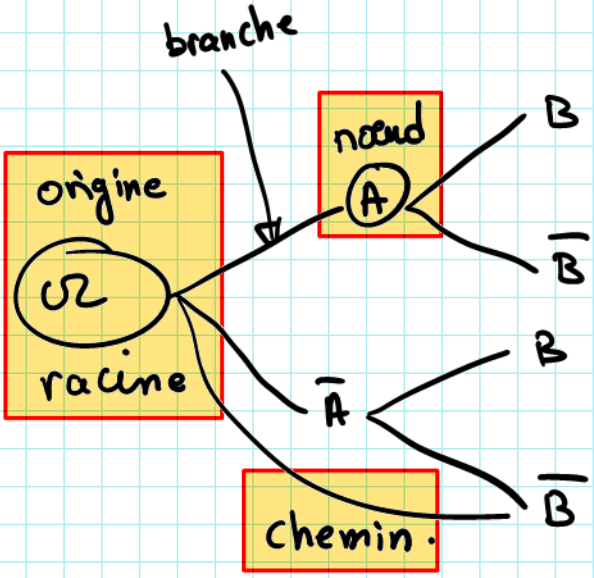
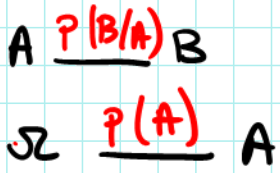
$A \cap B = B \cap A$ $\quad A \cup B = B \cup A$ $\quad A/B \neq B/A$.

$$P(\overline{A}/B) = 1 - P(A/B)$$

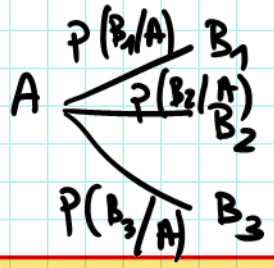
$$P(A/\overline{B}) = \frac{P(A \cap \overline{B})}{P(\overline{B})} = \begin{cases} \dfrac{P(A) - P(A \cap B)}{1 - P(B)} \\ \text{ou} \\ \dfrac{P(\overline{B}/A) \times P(A)}{1 - P(B)}. \end{cases}$$



R_1



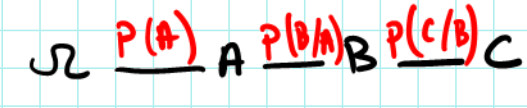
R_2



$$P(B_1/A) + P(B_2/A) + P(B_3/A) = 1.$$

Probabilité Composeé

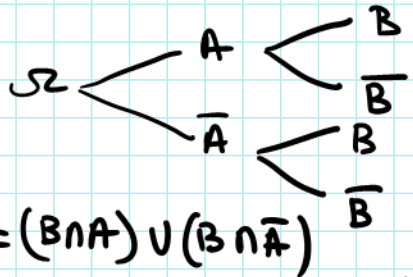
R_3



$$P(A \cap B \cap C) = P(A) \times P(B/A) \times P(C/B)$$

Probabilité totale

R_4



$$B = (B \cap A) \cup (B \cap \overline{A})$$

$$P(B) = P(B \cap A) + P(B \cap \overline{A}) = P(B/A) \times P(A) + P(B/\overline{A}) \times P(\overline{A})$$

$$P(A/B) = \frac{P(A \cap B)}{P(B)}$$

$$P(A \cap B) = P(A/B) \times P(B) = P(B/A) \times P(A)$$